



(19)

(11) Publication number: **2003146632 A**

Generated Document.

PATENT ABSTRACTS OF JAPAN(21) Application number: **2001351315**(51) Intl. Cl.: **C01B 31/02 D01F 9/22**(22) Application date: **16.11.01**

(30) Priority:

(43) Date of application
publication: **21.05.03**(84) Designated contracting
states:(71) Applicant: **JAPAN ATOM ENERGY RES INST**(72) Inventor: **ABE HIROYUKI**
MAEKAWA YASUNARI

(74) Representative:

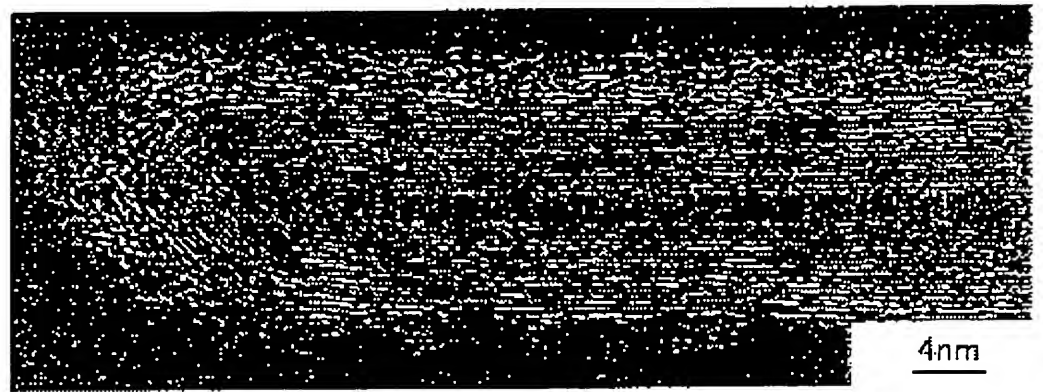
**(54) METHOD FOR
MANUFACTURING
CARBON NANOTUBE
USING TEMPLATE**

(57) Abstract:

PROBLEM TO BE SOLVED: To manufacture carbon nanotubes in a high yield and with high purity and to control their shapes by using a new method utilizing a template.

SOLUTION: The carbon nanotubes are manufactured by filling a monomer in a template having holes and/or recessions with diameters of several to several hundreds of nanometers, polymerizing the monomer and carbonizing or graphitizing the polymer or by filling the polymer and/or an oligomer therein and carbonized or graphitizing them. Also the shapes of the carbon nanotubes are controlled by controlling the shapes of the holes and/or recessions of the template.

COPYRIGHT: (C)2003,JPO



BEST AVAILABLE COPY